

Study programmes: MASTER STUDIES - Mathematics				
Course name: Selected topics of differential geometry				
Lecturers: Vladica S. Andrejić, Miroslava Ž. Antić, Srđan N. Vukmirović, Mirjana Đ. Đorić, Zoran S. Lučić, Zoran P. Rakić				
Status: Optional				
ECTS: 8				
Attendance prerequisites: No prerequisites.				
Course aims: Acquisition of general and specific knowledge in some topics of geometry selected by a teacher.				
Course outcome: Upon completion of the course, the student mastered basic notions from selected topics of differential geometry. Student is qualified to individual work and using acquired knowledge.				
Course content: Geodesic mappings. Homogeneous manifolds. Transformation groups in differential geometry. Symplectic geometry. The Minkowski space.				
Literature: <ol style="list-style-type: none"> 1. J. Mikeš, A. Vanžurova, I. Hinterleitner: Geodesic mappings and some generalizations, Palacky University, Olomouc, 2009. 2. Б. Балащенко, Ю. Никоноров, Е. Родионов, В. Славский: Однородные пространства, теория и приложения, Полиграфист, Ханты-Мансийск, 2008. 3. S. Kobayashi: Transformation groups in Differential Geometry, Springer, New York, 1972. 4. G. Naber: The Geometry of Minkowski Spacetime, Springer, New York, 1992. 				
Number of hours: 7	Lectures: 3	Tutorials: 2	Laboratory: -	Research: 2
Teaching and learning methods: Frontal / Tutorial				
Assessment (maximal 100 points)				
Course assignments	points	Final exam	points	
Lectures	-	Written exam	-	
Exercises / Tutorials	-	Oral exam	60	
Colloquia	-	Written-oral exam	-	
Essay / Project	40			